

$$w - \ln |ap^2 H + e^{ar}| = \ln |y| - \ln |N|$$

$$w = \ln |ap^2 H + e^{ar}| + \ln \left| \frac{y}{N} \right|$$

$$w = \ln \left| (ap^2 H + e^{ar}) \cdot \frac{y}{N} \right|$$

$$e^w = (ap^2 H + e^{ar}) \cdot \frac{y}{N}$$

$$e^w \cdot N = (ap^2 H + e^{ar}) \cdot y$$

$$e^w \cdot N = ap^2 Hy + e^{ar} y$$

$$ap^2 Hy = e^w N - e^{ar} y$$

$$\boxed{Happy = Ne^w - ye^{ar}}$$

BLACKLINES

VOLUME 33, ISSUE 4

*A Monthly Newsletter for Members of the
Treasure Coast Chapter of the Florida Engineering Society*

FOUNDED 1916



Florida
Engineering
Society

- *INSIDE THIS ISSUE* -

Upcoming Calendar of Events



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Jan 24, 2020	Shrimp Boil
Jan 28 & 29, 2020	Legislative Days
Feb 7, 2020	MATHCOUNTS

Message from the President

Testing – Failing – Passing.

Testing is standard practice in engineering. Warning: Failures will occur. Back in the day, I (20) worked for Vinu Abraham, PE at Hurricane Test Lab as a test tech. We stress-tested specimens (windows, doors, roofs) and often times these products failed (leaked, imploded, over-deflected). The observation of these failures led to design improvements (more reinforcement, anchors, sealant) which ultimately created a product safe and strong enough to withstand a hurricane (Miami-Dade product approval NOA).

The failing and passing of tests are a method (madness) that can be found throughout our culture. Failure often gets a bad rap but, "Don't worry-be happy" failure has value to great engineering minds (young and old).

Arthur Dylan O'Berry, PE—FES Treasure Coast Ch., President



Past Events

December saw the return of the Party in the park event. We got to eat some good food take in some good drinks around great company. We even got to see a boat beach itself! To all those that came it was great to see you and for those that did not we hope to see you next time.



SHRIMP BOIL — 2020

- ◆ Indian Riverside Park
- ◆ 1707 NE Indian River Drive,
Jensen Beach FL 34957



Friday, January 24

6:00- | \$25 per Person
8:30 PM | Kids Eat Free

ALL YOU CAN EAT

Please RSVP to Ben Fecko @ vicepresident@tcfes.org



FLORIDA MATHCOUNTS®



Date: Friday, Feb. 7th 8:00 am-3:30 pm

Location: Indian River State College - Main Campus (Building N, Room 135)
3209 Virginia Avenue, Fort Pierce, Florida

Call for Schools There is a growing need for local schools to participate in the event as a number of schools have dropped out. We are asking all of our members to reach out to your local school to see if they would like to participate in this national event. MATHCOUNTS is specifically targeted to middle school students and is nationwide competition. Please go to mathcounts.org for information or e-mail Dan Zrallack at DZrallack@ardaman.com with questions.

Thanks to the efforts of our members, we were able to register two **new schools** this year: Renaissance Charter School at Tradition and Renaissance Charter School of Port St Lucie.

Call for Volunteers Please respond to dzrallack@ardaman.com with your availability.

- All Day (9am-3:30pm)
- Morning Session (9am-noon)
- Afternoon Session (12:30pm-3:30pm)

We are in need of sponsorships. **A \$200 donation gets your logo on the shirt!** Please contact Dan if you would like to be a sponsor.

TCFES Polo Shirts

FES Treasure Coast Chapter Polo shirts are still available!!!

Shirts come in a variety of colors and sizes and will have the FES Treasure Coast Logo embroidered

Order now to be able to represent the chapter at the next event!

Orders will be delivered at the next FES event

Please send orders to Steven Frink at secretary@tcfes.org or Thomas Carr at treasurer@tcfes.org

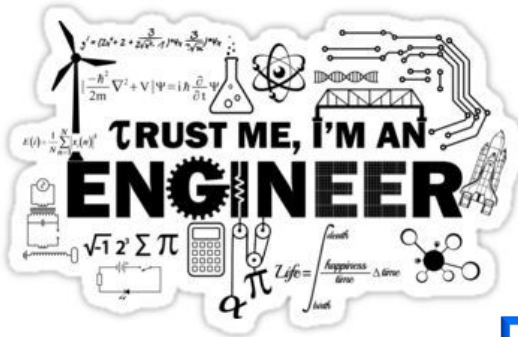


IN BETWEEN THE LINES

For those that have not heard, we have a new **Professional Engineer** in our midst. In October 2019, this person took their professional engineering exam with an emphasis in Transportation. After about a month and a half they received a passing score!

Please join us in congratulating **Dylan O'Berry** for achieving this career milestone.

We wish all the best luck and success in the future!



Dylan O'Berry, P.E.

Scholarships

The Treasure Coast FES has multiple scholarships available and must be submitted by February 14th, 2020.



Scholarships help relieve some of the financial burden placed on families when a child decides to take that next step in their education. The FES scholarships not only help relieve some of this burden but promote an interested in the profession.

Spread the word to any high school student interested in becoming an engineer and help keep the profession growing!



All Scholarship Applications are to be sent to:

Paul J. Bangs, PE
2067 NW Chenille Ln
Stuart, FL 34994

Professional Engineer Legislative Days

January 28-29, 2020 | Tallahassee, FL

Hosted by the **Florida Engineering Society** & the **American Council of Engineering Companies of Florida**, the event offers professional engineers the opportunity to promote and defend important issues at the Capitol.

During the event, you will have a chance to visit the Capitol and meet with the Representatives and Senators of Florida.

Registration can be complete online at fleng.org

Space is limited and registration must be completed by January 21, 2020.

Contact Allen Douglas or Chad Fiason at FES State Headquarters in Tallahassee for more information

State Information:

Upcoming Events:

Tuesday, January 14, 2020

[ACEC-FL Transportation Committee Meeting](#)

01/14/2020

Location: Orland, Florida Time: 10:00 am

Tuesday, January 28, 2020

[2020 Professional Engineers Legislative Days](#)

01/28/2020 - 01/29/2020

Location: Tallahassee, FL Time: 8:00 am

Tuesday, February 18, 2020

[2020 Winter Water Seminar](#)

01/20/2020

Location: Orlando, FL

NSPE Code of Ethics

Engineering is an important and learned profession. As members of this profession, engineers are expected to exhibit the highest standards of honesty and integrity. Engineering has a direct and vital impact on the quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. Engineers must perform under a standard of professional behavior that requires adherence to the highest principles of ethical conduct.

Fundamental Canons

Engineers, in the fulfillment of their professional duties, shall:

- Hold paramount the safety, health, and welfare of the public.
- Perform services only in areas of their competence.
- Issue public statements only in an objective and truthful manner.
- Act for each employer or client as faithful agents or trustees.
- Avoid deceptive acts.
- Conduct themselves honorably, responsibly, ethically, and law fully so as to enhance the honor, reputation, and usefulness of the profession.

The FES Mission Statement

The mission of the Florida Engineering Society is to support engineering education, advocate licensure, promote the ethical and competent practice of engineering and enhance the image and well-being of all engineers in the state of Florida; and furthers the public's knowledge and understanding of the importance of the profession.



Please visit our website!

<http://www.tcfes.org>



**Send your comments and suggestions
about our website or Facebook page to
treasurer@tcfes.org**

Questions or Comments?

If you have any questions/comments, or if you would like something included in the monthly publication, please contact Steven Frink at (772) 462-2455 or secretary@tcfes.org

2019 — 2020 Treasure Coast Chapter Board Members

Dylan O'Berry, P.E., President president@tcfes.org
Ben Fecko, P.E., Vice President vicepresident@tcfes.org
Thomas Carr, E.I., Treasurer treasurer@tcfes.org
Steven Frink, E.I., Secretary secretary@tcfes.org
Kelly Cranford, P.E., Regional Vice President regionalvp@tcfes.org
Logan Huber P.E., Past-President pastpresident@tcfes.org
Will Cornelius, P.E. State Director statedirector@tcfes.org

TREASURE COAST CHAPTER

Chartered 1987

FLORIDA ENGINEERING SOCIETY

Affiliated with

**NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS
P.O. BOX 8764, PORT ST. LUCIE, FL 34985**

